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SEQUENCE LISTING

<110> Ayalon, Michal  
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Beck, Nili  
Zhu, Wei-Yong  
Wasserman, Alon  
Azar, Idit  
Bernstein, Jeanne

<120> NOVEL POLYNUCLEOTIDES ENCODING SOLUBLE POLYPEPTIDES AND METHODS USING SAME

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<170> PatentIn version 3.2

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Ser Ala Leu Arg Lys Glu Thr Cys Asn Lys Ser Asn Met Cys Glu Ser  
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Ser Lys Glu Ala Leu Ala Glu Asn Asn Leu Asn Leu Pro Lys Met Ala  
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Glu Lys Asp Gly Cys Phe Gln Ser Gly Phe Asn Glu Glu Thr Cys Leu  
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Thr Gly Asp Phe Asp Leu His Leu Leu Lys Val Ser Glu Gly Thr Thr  
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Ile Leu Leu Asn Cys Thr Gly Gln Val Lys Gly Arg Lys Pro Ala Ala  
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13

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Pro	Pro	Asn	Ser	Phe	Ser	Ser	Ala	Gly	Gly	Gln	Arg	Thr	Cys	Asp	Ile
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Ala	Gly	Cys	Ser	Met	Cys	Glu	Gln	Asp	Cys	Lys	Gln	Gly	Gln	Glu	Leu
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Thr Cys Val Ser Asp Tyr Met Ser Ile Ser Thr Cys Glu Trp Lys Met  
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Asn Gly Pro Thr Asn Cys Ser Thr Glu Leu Arg Leu Leu Tyr Gln Leu  
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Val Phe Leu Leu Ser Glu Ala His Thr Cys Ile Pro Glu Asn Asn Gly  
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Gly Ala Gly Cys Val Cys His Leu Leu Met Asp Asp Val Val Ser Ala  
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Asp Asn Tyr Thr Leu Asp Leu Trp Ala Gly Gln Gln Leu Leu Trp Lys  
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Gly Ser Phe Lys Pro Ser Glu His Val Lys Pro Arg Ala Pro Gly Asn  
115 120 125

Leu Thr Val His Thr Asn Val Ser Asp Thr Leu Leu Leu Thr Trp Ser  
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Asn Pro Tyr Pro Pro Asp Asn Tyr Leu Tyr Asn His Leu Thr Tyr Ala  
145 150 155 160

Val Asn Ile Trp Ser Glu Asn Asp Pro Ala Asp Phe Arg Ile Tyr Asn  
165 170 175

Val Thr Tyr Leu Glu Pro Ser Leu Arg Ile Ala Ala Ser Thr Leu Lys  
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Ser Gly Ile Ser Tyr Arg Ala Arg Val Arg Ala Trp Ala Gln Cys Tyr  
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Asn Thr Thr Trp Ser Glu Trp Ser Pro Ser Thr Lys Trp His Asn Cys  
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Glu Tyr Gln Glu Ala  
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Cys Glu Tyr Gln Glu Ala

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<210> 29  
 <211> 176  
 <212> PRT  
 <213> Homo sapiens

<400> 29

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Asn Asn Asp Met Ile Val Thr Asp Asn Asn Gly Ala Val Lys Phe Pro  
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Gln Leu Cys Lys Phe Cys Asp Val Arg Phe Ser Thr Cys Asp Asn Gln  
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Lys Ser Cys Met Ser Asn Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro  
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Gln Glu Val Cys Val Ala Val Trp Arg Lys Asn Asp Glu Asn Ile Thr  
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Leu Glu Thr Val Cys His Asp Pro Lys Leu Pro Tyr His Asp Phe Ile  
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Leu Glu Asp Ala Ala Ser Pro Lys Cys Ile Met Lys Glu Lys Lys Lys  
 115 120 125

Pro Gly Glu Thr Phe Phe Met Cys Ser Cys Ser Ser Asp Glu Cys Asn  
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23

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Phe Gly Phe Ala Val Asp Phe Phe Val Pro Ser Ala Ser Ser Arg Met  
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Phe Leu Leu Val Gly Ala Pro Lys Ala Asn Thr Thr Gln Pro Gly Ile  
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Val Glu Gly Gly Gln Val Leu Lys Cys Asp Trp Ser Ser Thr Arg Arg  
85 90 95

Cys Gln Pro Ile Glu Phe Asp Ala Thr Gly Asn Arg Asp Tyr Ala Lys  
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Asp Asp Pro Leu Glu Phe Lys Ser His Gln Trp Phe Gly Ala Ser Val  
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Arg Ser Lys Gln Asp Lys Ile Leu Ala Cys Ala Pro Leu Tyr His Trp  
 130 135 140

Arg Thr Glu Met Lys Gln Glu Arg Glu Pro Val Gly Thr Cys Phe Leu  
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Gln Asp Gly Thr Lys Thr Val Glu Tyr Ala Pro Cys Arg Ser Gln Asp  
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Phe Thr Lys Ala Asp Arg Val Leu Leu Gly Gly Pro Gly Ser Phe Tyr  
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Trp Gln Gly Gln Leu Ile Ser Asp Gln Val Ala Glu Ile Val Ser Lys  
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Tyr Asp Pro Asn Val Tyr Ser Ile Lys Tyr Asn Asn Gln Leu Ala Thr  
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Arg Thr Ala Gln Ala Ile Phe Asp Asp Ser Tyr Leu Gly Tyr Ser Val  
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Ala Val Gly Asp Phe Asn Gly Asp Gly Ile Asp Asp Phe Val Ser Gly  
 260 265 270

Val Pro Arg Ala Ala Arg Thr Leu Gly Met Val Tyr Ile Tyr Asp Gly  
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Lys Asn Met Ser Ser Leu Tyr Asn Phe Thr Gly Glu Gln Met Ala Ala  
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Tyr Phe Gly Phe Ser Val Ala Ala Thr Asp Ile Asn Gly Asp Asp Tyr  
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Gly Lys Leu Gln Glu Val Gly Gln Val Ser Val Ser Leu Gln Arg Ala  
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Ser Gly Asp Phe Gln Thr Thr Lys Leu Asn Gly Phe Glu Val Phe Ala  
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Arg Phe Gly Ser Ala Ile Ala Pro Leu Gly Asp Leu Asp Gln Asp Gly

370

375

380

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Glu Phe Arg Asp Lys Leu Thr Pro Ile Thr Ile Phe Met Glu Tyr Arg  
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Gln Thr Arg Gln Val Val Cys Asp Leu Gly Asn Pro Met Lys Ala Gly  
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Thr Gln Leu Leu Ala Gly Leu Arg Phe Ser Val His Gln Gln Ser Glu  
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Met Asp Thr Ser Val Lys Phe Asp Leu Gln Ile Gln Ser Ser Asn Leu  
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Phe Asp Lys Val Ser Pro Val Val Ser His Lys Val Asp Leu Ala Val  
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Leu Ala Ala Val Glu Ile Arg Gly Val Ser Ser Pro Asp His Ile Phe  
 770 775 780

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<400> 37

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Asn Phe Lys Asn Ile Leu Gln Trp Glu Ser Pro Ala Phe Ala Lys Gly				
	35		40	45
Asn Leu Thr Phe Thr Ala Gln Tyr Leu Ser Tyr Arg Ile Phe Gln Asp				
	50		55	60
Lys Cys Met Asn Thr Thr Leu Thr Glu Cys Asp Phe Ser Ser Leu Ser				
	65		70	75
Lys Tyr Gly Asp His Thr Leu Arg Val Arg Ala Glu Phe Ala Asp Glu				
	85		90	95
His Ser Asp Trp Val Asn Ile Thr Phe Cys Pro Val Asp Asp Thr Ile				
	100		105	110
Ile Gly Pro Pro Gly Met Gln Val Glu Val Leu Ala Asp Ser Leu His				
	115		120	125
Met Arg Phe Leu Ala Pro Lys Ile Glu Asn Glu Tyr Glu Thr Trp Thr				
	130		135	140
Met Lys Asn Val Tyr Asn Ser Trp Thr Tyr Asn Val Gln Tyr Trp Lys				
	145		150	155
Asn Gly Thr Asp Glu Lys Phe Gln Ile Thr Pro Gln Tyr Asp Phe Glu				
	165		170	175
Val Leu Arg Asn Leu Glu Pro Trp Thr Thr Tyr Cys Val Gln Val Arg				
	180		185	190
Gly Phe Leu Pro Asp Arg Asn Lys Ala Gly Glu Trp Ser Glu Pro Val				
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Cys Glu Gln Thr Thr His Asp Val Phe Gly Pro Ser Ser Ser				
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<212> PRT
<213> Homo sapiens

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20          25          30

Gln Lys Val Glu Val Asp Ile Ile Asp Asp Asn Phe Ile Leu Arg Trp
35          40          45

Asn Arg Ser Asp Glu Ser Val Gly Asn Val Thr Phe Ser Phe Asp Tyr
50           55          60

Gln Lys Thr Gly Met Asp Asn Trp Ile Lys Leu Ser Gly Cys Gln Asn
65           70          75          80

Ile Thr Ser Thr Lys Cys Asn Phe Ser Ser Leu Lys Leu Asn Val Tyr
85           90          95

Glu Glu Ile Lys Leu Arg Ile Arg Ala Glu Lys Glu Asn Thr Ser Ser
100          105          110

Trp Tyr Glu Val Asp Ser Phe Thr Pro Phe Arg Lys Ala Gln Ile Gly
115          120          125

Pro Pro Glu Val His Leu Glu Ala Glu Asp Lys Ala Ile Val Ile His
130          135          140

Ile Ser Pro Gly Thr Lys Asp Ser Val Met Trp Ala Leu Asp Gly Leu
145          150          155          160

Ser Phe Thr Tyr Ser Leu Val Ile Trp Lys Asn Ser Ser Gly Val Glu
165          170          175

Glu Arg Ile Glu Asn Ile Tyr Ser Arg His Lys Ile Tyr Lys Leu Ser
180          185          190

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Pro Glu Thr Thr Tyr Cys Leu Lys Val Lys Ala Ala Leu Leu Thr Ser  
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Trp Lys Ile Gly Val Tyr Ser Pro Val His Cys Ile Lys Thr Thr Val  
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Glu Asn Glu Leu Pro Pro Glu Asn Ile Glu Val Ser Val Gln Asn  
 225 230 235 240

Gln Asn Tyr Val Leu Lys Trp Asp Tyr Thr Tyr Ala Asn Met Thr Phe  
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Gln Val Gln Trp Leu His Ala Phe Leu Lys Arg Asn Pro Gly Asn His  
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Leu Tyr Lys Trp Lys Gln Ile Pro Asp Cys Glu Asn Val Lys Thr Thr  
 275 280 285

Gln Cys Val Phe Pro Gln Asn Val Phe Gln Lys Gly Ile Tyr Leu Leu  
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Arg Val Gln Ala Ser Asp Gly Asn Asn Thr Ser Phe Trp Ser Glu Glu  
 305 310 315 320

Ile Lys Phe Asp Thr Glu Ile Gln Ala Phe Leu Leu Pro Pro Val Phe  
 325 330 335

Asn Ile Arg Ser Leu Ser Asp Ser Phe His Ile Tyr Ile Gly Ala Pro  
 340 345 350

Lys Gln Ser Gly Asn Thr Pro Val Ile Gln Asp Tyr Pro Leu Ile Tyr  
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Glu Ile Ile Phe Trp Glu Asn Thr Ser Asn Ala Glu Arg Lys Ile Ile  
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Glu Lys Lys Thr Asp Val Thr Val Pro Asn Leu Lys Pro Leu Thr Val  
 385 390 395 400

Tyr Cys Val Lys Ala Arg Ala His Thr Met Asp Glu Lys Leu Asn Lys  
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Ser Ser Val Phe Ser Asp Ala Val Cys Glu Lys Thr Lys Pro Gly Gln  
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Asn Leu Leu Leu Ser Phe Leu Lys Met  
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&lt;213&gt; Homo sapiens

&lt;400&gt; 42

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&lt;211&gt; 1512

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 43

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